P210V40 iSCSI-SAS 2U8 Storage Systems

Qsan's storage systems are designed for high availability, non-stop services, applications demanding high throughput, and flexible storage planning with cost effectiveness for small and medium businesses.

Highlights

1. Four iSCSI ports
2. Up to 120K IOPS & 600MB/Sec. throughput
3. Hardware iSCSI offloaded engine
4. Green storage designs: auto disk spin down, advanced cooling mechanism, & 80 PLUS energy-efficient power supplies
5. Advanced data protection: RAID 6, 60, QSnap writeable snapshot, Windows VSS support
6. Flexible volume management for multiple applications & environments: virtualization (VMWare, Hyper-V, Citrix), cloud storage, SQL, Exchange, surveillance, file backup, email, boot from SAN, & etc.
7. High connection availability: load balancing & failover
8. Extendable capacity up to 160TB

Outstanding Performance

P210V40 IOPS is 120,000 at maximum, much higher than other storage systems within the same segment in the current market; besides, its throughput is 600MB/Sec. at maximum.

Applications

The optimized IOPS and throughput are capable of providing run-time critical online services, such as Cloud storage, SQL, Exchange, and high-end surveillance storages. Furthermore, with the iSCSI interface, P210V40 is ideal for virtualization environments - VMWare, Hyper-V, and Citrix. Users can install up to 32 OSes in the iSCSI system through the Boot-from-SAN feature. With this feature, the multiple OSes/Servers can be managed easily and well protected by Qsan's advanced data protection features.

Green

All P210V40 systems are equipped with Qsan's default green features for power saving. In most cases, the hard drives consume most power. With the auto disk spin down feature and proper configuration, the power consumption of hard drives can be reduced to a minimum, and users will not even notice this feature. P210V40 monitors the environment temperature for cooling mechanism and the fan modules respond accordingly. The power supply modules are all 80 PLUS power efficient for better power converting rate. In virtue of the reduction of hard drive power consumption, the advanced cooling mechanism, and the energy-efficient power supplies, the unnecessary power cost is decreased greatly.

Ordering Information

Controller Configuration

P210V40	Single controller

Optional Components

BBM	Battery backup module for cache

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P210V40

Hardware Components

RAID Controller	Single controller
No. of Host Channels	4 x iSCSI
Expansion Enclosure	J200 series
Cache Memory	1GB, up to 2GB
No. of Hard Drives (SAS & SATA II)	8
Max. No. of Hard Drives (SAS & SATA II)	80
Power Supply	2 x 300W
Fan	2
Dimensions	2U 19" Rackmount 431.0mm x 516.0mm x 87.5mm (W x D x H)

Feature Highlights

Green	Auto disk spin down Advanced cooling mechanism 80 PLUS energy-efficient power supplies
iSCSI	Hardware iSCSI off-load engine iSCSI jumbo frame Header/Data digest CHAP authentication Up to 32 multiple nodes support Up to 128 sessions
RAID & Volume	RAID level 0,1,0+1,3,5,6,10,30,50, 60, JBOD, N-way mirror Up to 1024 logical volumes One logic volume can be shared by as many as 16 hosts Global and dedicated hot spare Write-through or write-back cache policy Online volume expansion Instant RAID volume availability Auto volume rebuilding On-line volume migration without system down time
High Availability	Multi-path & load-balancing support (Microsoft MPIO, MC/S, Trunking, LACP)
Advanced Data Protection	QSnap writable snapshot Microsoft Windows Volume Shadow Copy Services (VSS) Configurable N-way mirror Online disk roaming Instant volume configuration restoration Battery backup module (BBM)
Management	LCM; Serial console; SSH telnet; HTTP Web UI; Secured Web (HTTPS); iSNS; S.E.S.
Notification	Email; SNMP trap; Browser pop-up windows; Syslog; Windows Messenger
OS Support	Windows; Linux; Solaris; Mac
Virtualization	VMWare; Hyper-V; Citrix
Warranty	3-year warranty for system 1-year warranty for battery backup module

Requirements

AC Input	100-240V ~ 6A-4A 1+1 300W with PFC (Auto Switching)
DC Output	3.3V-15A; 5V-25A; 12V-18A
Operating Temperature	10 to 40°C
Relative Humidity	5% to 95% non-condensing

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